Didier Gascuel

List of Publications by Year
in descending order

102 papers	3,984 citations	101384 36 h-index	138251 58 g-index
105 all docs	105 docs citations	105 times ranked	4080 citing authors

#	Article	IF	Citations
1	Global marine primary production constrains fisheries catches. Ecology Letters, 2010, 13, 495-505.	3.0	357
2	Global overview of the applications of the Ecopath with Ecosim modeling approach using the EcoBase models repository. Ecological Modelling, 2015, 302, 42-53.	1.2	211
3	Size matters: How single-species management can contribute to ecosystem-based fisheries management. Fisheries Research, 2008, 92, 231-241.	0.9	143
4	Trophic level-based indicators to track fishing impacts across marine ecosystems. Marine Ecology - Progress Series, 2014, 512, 115-140.	0.9	126
5	Ecological indicators to capture the effects of fishing on biodiversity and conservation status of marine ecosystems. Ecological Indicators, 2016, 60, 947-962.	2.6	120
6	Identifying fishing trip behaviour and estimating fishing effort from VMS data using Bayesian Hidden Markov Models. Ecological Modelling, 2010, 221, 1757-1769.	1.2	97
7	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. Nature Climate Change, 2021, 11, 973-981.	8.1	96
8	Minimizing the impact of fishing. Fish and Fisheries, 2016, 17, 785-802.	2.7	93
9	Factors affecting the detection distances of reef fish: implications for visual counts. Marine Biology, 2011, 158, 969-981.	0.7	88
10	The trophic spectrum: theory and application as an ecosystem indicator. ICES Journal of Marine Science, 2005, 62, 443-452.	1.2	87
11	Integrated ecological–economic fisheries models—Evaluation, review and challenges for implementation. Fish and Fisheries, 2018, 19, 1-29.	2.7	87
12	Bottom-up control regulates fisheries production at the scale of eco-regions in European seas. Marine Ecology - Progress Series, 2007, 343, 45-55.	0.9	83
13	Fishing impact and environmental status in <scp>E</scp>uropean seas: a diagnosis from stock assessments and ecosystem indicators. Fish and Fisheries, 2016, 17, 31-55.	2.7	78
14	Modelling dynamic ecosystems: venturing beyond boundaries with the Ecopath approach. Reviews in Fish Biology and Fisheries, 2015, 25, 413-424.	2.4	73
15	Flow-carried and active swimming migration of the glass eel(Anguilla anguilla) in the tidal area of a small estuary on the French Atlantic coast. Helgoläšänder Meeresuntersuchungen, 1986, 40, 321-326.	0.2	72
16	Energy Flow Through Marine Ecosystems: Confronting Transfer Efficiency. Trends in Ecology and Evolution, 2021, 36, 76-86.	4.2	70
17	EcoTroph: Modelling marine ecosystem functioning and impact of fishing. Ecological Modelling, 2009, 220, 2885-2898.	1.2	67
18	Trophic flow kinetics in marine ecosystems: Toward a theoretical approach to ecosystem functioning. Ecological Modelling, 2008, 217, 33-47.	1.2	63

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19	Estimates of the mortality and the duration of the trans‐Atlantic migration of European eel <i>Anguilla anguilla</i> leptocephali using a particle tracking model. Journal of Fish Biology, 2009, 74, 1891-1914.	0.7	62
20	The trophic-level-based ecosystem modelling approach: theoretical overview and practical uses. ICES Journal of Marine Science, 2011, 68, 1403-1416.	1.2	61
21	Climate change undermines the global functioning of marine food webs. Global Change Biology, 2020, 26, 1306-1318.	4.2	60
22	Shifting baselines in European fisheries: The case of the Celtic Sea and Bay of Biscay. Ocean and Coastal Management, 2012, 70, 10-21.	2.0	55
23	An ecosystem approach for the assessment of fisheries impacts on marine top predators: the Bay of Biscay case study. ICES Journal of Marine Science, 2012, 69, 925-938.	1.2	55
24	The trophic-level based model: A theoretical approach of fishing effects on marine ecosystems. Ecological Modelling, 2005, 189, 315-332.	1.2	52
25	Are we ready to track climate‐driven shifts in marine species across international boundaries? ‐A global survey of scientific bottom trawl data. Global Change Biology, 2021, 27, 220-236.	4.2	51
26	Changes in the trophic structure of fish demersal communities in West Africa in the three last decades. Aquatic Living Resources, 2004, 17, 163-173.	0.5	49
27	Hierarchical interpretation of nonlinear relationships linking yellowfin tuna (<i>Thunnus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5(and Aquatic Sciences, 2001, 58, 458-469.	0.7	47
28	Modelling the effects of fishing on the biomass of the world's oceans from 1950 to 2006. Marine Ecology - Progress Series, 2011, 442, 169-185.	0.9	46
29	A multi-species multi-fleet bioeconomic simulation model for the English Channel artisanal fisheries. Fisheries Research, 2002, 58, 379-401.	0.9	45
30	Decline of demersal resources in North-West Africa: an analysis of Mauritanian trawl-survey data over the past 25 years. African Journal of Marine Science, 2007, 29, 331-345.	0.4	44
31	Global change in the trophic functioning of marine food webs. PLoS ONE, 2017, 12, e0182826.	1.1	43
32	Disentangling diverse responses to climate change among global marine ecosystem models. Progress in Oceanography, 2021, 198, 102659.	1.5	42
33	Estimation des interactions techniques dues à la compétition pour la ressource dans une pâcherie plurispécifique, et application à la typologie des flottilles et métiers dans la Manche.. Aquatic Living Resources, 2001, 14, 267-281.	0.5	41
34	Trophic model of lagoonal communities in a large open atoll (Uvea, Loyalty islands, New Caledonia). Aquatic Living Resources, 2004, 17, 151-162.	0.5	41
35	Modelling trophic flows in ecosystems to assess the efficiency of marine protected area (MPA), a case study on the coast of Sénégal. Ecological Modelling, 2012, 232, 1-13.	1.2	40
36	New trophic indicators and target values for an ecosystem-based management of fisheries. Ecological Indicators, 2016, 61, 588-601.	2.6	40

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37	Modeling trophic interactions to assess the effects of a marine protected area: case study in the NW Mediterranean Sea. Marine Ecology - Progress Series, 2012, 456, 201-214.	0.9	38
38	The effects of flood regime and fishing effort on the overall abundance of an exploited fish community in the Amazon floodplain. Aquatic Living Resources, 1993, 6, 97-108.	0.5	37
39	Towards the implementation of an integrated ecosystem fleet-based management of European fisheries. Marine Policy, 2012, 36, 1022-1032.	1.5	37
40	SHADYS (â€˜simulateur halieutique de dynamiques spatialesâ€™), a GIS based numerical model of fisheries. Example application: The study of a marine protected area. Aquatic Living Resources, 1999, 12, 77-88.	0.5	36
41	Fishing inside or outside? A case studies analysis of potential spillover effect from marine protected areas, using food web models. Journal of Marine Systems, 2014, 139, 383-395.	0.9	34
42	Climateâ€‘induced decrease in biomass flow in marine food webs may severely affect predators and ecosystem production. Global Change Biology, 2021, 27, 2608-2622.	4.2	32
43	The scientific strategy needed to promote a regional ecosystem-based approach to fisheries in the Mediterranean and Black Seas. Reviews in Fish Biology and Fisheries, 2013, 23, 415-434.	2.4	30
44	Trophic models: What do we learn about Celtic Sea and Bay of Biscay ecosystems?. Journal of Marine Systems, 2017, 172, 104-117.	0.9	30
45	European Unionâ€™s Public Fishing Access Agreements in Developing Countries. PLoS ONE, 2013, 8, e79899.	1.1	28
46	Assessing interacting impacts of artisanal and recreational fisheries in a small Marine Protected Area (Portofino, NW Mediterranean Sea). Ecosphere, 2016, 7, e01601.	1.0	26
47	Seasonal dynamics of estuarine migration in glass eels(Anguilla anguilla). Aquatic Living Resources, 1995, 8, 123-133.	0.5	25
48	Estimation of the overall fishing power: A study of the dynamics and fishing strategies of Brittany's industrial fleets. Aquatic Living Resources, 1999, 12, 89-103.	0.5	25
49	Investigating trophicâ€‘level variability in Celtic Sea fish predators. Journal of Fish Biology, 2008, 73, 763-781.	0.7	25
50	Assessing the Contribution of Marine Protected Areas to the Trophic Functioning of Ecosystems: A Model for the Banc dâ€™Arguin and the Mauritanian Shelf. PLoS ONE, 2014, 9, e94742.	1.1	25
51	An iron cycle cascade governs the response of equatorial Pacific ecosystems to climate change. Global Change Biology, 2020, 26, 6168-6179.	4.2	25
52	Overfishing of marine resources: some lessons from the assessment of demersal stocks off Mauritania. ICES Journal of Marine Science, 2015, 72, 414-427.	1.2	24
53	Â«Â Surexploitation localeÂ Â» et tactiques de pÃªcheÂ : considÃ©rations thÃ©oriques et consÃ©quences pratiques en Ã©valuation des stocks Ã©tudiÃ©s avec un simulateur numÃ©rique de pÃªcheries.. Aquatic Living Resources, 2001, 14, 203-210.	0.5	23
54	Trophic signature of coral reef fish assemblages: Towards a potential indicator of ecosystem disturbance. Aquatic Living Resources, 2005, 18, 103-109.	0.5	23

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55	Environmental life cycle assessment of seafood production: A case study of trawler catches in Tunisia. Science of the Total Environment, 2018, 610-611, 298-307.	3.9	23
56	The Celtic Sea Through Time and Space: Ecosystem Modeling to Unravel Fishing and Climate Change Impacts on Food-Web Structure and Dynamics. Frontiers in Marine Science, 2020, 7, .	1.2	23
57	An Introduction to the EcoTroph R Package: Analyzing Aquatic Ecosystem Trophic Networks. R Journal, 2013, 5, 98.	0.7	23
58	Integrating Marine Protected Areas in fisheries management systems: some criteria for ecological efficiency. Aquatic Living Resources, 2013, 26, 159-170.	0.5	22
59	Evaluating changes in marine communities that provide ecosystem services through comparative assessments of community indicators. Ecosystem Services, 2015, 16, 413-429.	2.3	22
60	Exploring the impacts of fishing and environment on the Celtic Sea ecosystem since 1950. Fisheries Research, 2020, 225, 105472.	0.9	22
61	Analyse de l'Ã©volution des puissances de pÃªche par l'analyse des cohortes : application aux senneurs exploitant l'albacore(Thunnus albacares)dans l'Atlantique Est. Aquatic Living Resources, 1993, 6, 15-30.	0.5	21
62	A future for marine fisheries in Europe (Manifesto of the Association FranÃ§aise dâ€™HalieumÃ©trie). Fisheries Research, 2011, 109, 1-6.	0.9	21
63	Fishing impact in Mediterranean ecosystems: an EcoTroph modeling approach. Journal of Marine Systems, 2015, 150, 22-33.	0.9	21
64	Information transfer, behavior of vessels and fishing efficiency: an individual-based simulation approach. Aquatic Living Resources, 2006, 19, 1-13.	0.5	20
65	Global assessment of the fishing impacts on the Southern Benguela ecosystem using an EcoTroph modelling approach. Journal of Marine Systems, 2012, 90, 1-12.	0.9	20
66	ModÃ©lisation d'une croissance en deux stances chez l'albacore(Thunnus albacares)de l'Atlantique Est. Aquatic Living Resources, 1992, 5, 155-172.	0.5	18
67	La biodiversitÃ© spÃ©cifique des ressources dÃ©mersales du plateau continental guinÃ©en : utilisation d'indices classiques pour un diagnostic sur l'Ã©volution de l'Ã©cosystÃ¨me. Aquatic Living Resources, 2003, 16, 59-68.	0.5	18
68	Potential impacts of climate change on agriculture and fisheries production in 72 tropical coastal communities. Nature Communications, 2022, 13, .	5.8	17
69	Using trophic models to assess the impact of fishing in the Bay of Biscay and the Celtic Sea. Aquatic Living Resources, 2017, 30, 7.	0.5	16
70	Assessing stocks in data-poor African fisheries: a case study on the white grouper<i>Epinephelus aeneus</i>of Mauritania. African Journal of Marine Science, 2013, 35, 253-267.	0.4	15
71	Combining ecosystem indicators and life cycle assessment for environmental assessment of demersal trawling in Tunisia. International Journal of Life Cycle Assessment, 2020, 25, 105-119.	2.2	14
72	EcoTroph: a simple model to assess fishery interactions and their impacts on ecosystems. ICES Journal of Marine Science, 2013, 70, 498-510.	1.2	13

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73	Recovery Debts Can Be Revealed by Ecosystem Network-Based Approaches. Ecosystems, 2019, 22, 658-676.	1.6	13
74	Assessment of a multispecies fishery in Senegal, using production models and diversity indices. Aquatic Living Resources, 1997, 10, 281-288.	0.5	12
75	Impact of trophic interactions on production functions and on the ecosystem response to fishing: A simulation approach. Aquatic Living Resources, 2005, 18, 1-13.	0.5	12
76	A surplus production model including environmental effects: Application to the Senegalese white shrimp stocks. Progress in Oceanography, 2009, 83, 351-360.	1.5	12
77	Analysing environmental and fishing effects on a short-lived species stock: the dynamics of the octopus<i>Octopus vulgaris</i>population in Senegalese waters. African Journal of Marine Science, 2011, 33, 209-222.	0.4	12
78	Balancing complexity and feasibility in Mediterranean coastal food-web models: uncertainty and constraints. Marine Ecology - Progress Series, 2014, 512, 71-88.	0.9	12
79	Species richness in North Atlantic fish: Process concealed by pattern. Global Ecology and Biogeography, 2020, 29, 842-856.	2.7	11
80	Mesoscale productivity fronts and local fishing opportunities in the European Seas. Fish and Fisheries, 2021, 22, 1227.	2.7	11
81	Une méthode simple d'ajustement des clés taille/âge : application aux captures d'albacores (<i>Thunnus) Tj ETQq1 1 0.784314	0.7	9
82	Fishing Without a Trace? Assessing the Balanced Harvest Approach Using EcoTroph. Frontiers in Marine Science, 2020, 7, .	1.2	9
83	The role of marine protected areas in sustaining fisheries: The case of the National Park of Banc dâ€™Arguin, Mauritania. Aquaculture and Fisheries, 2020, 5, 253-264.	1.2	9
84	Progress towards ending overfishing in the Northeast Atlantic. Marine Policy, 2021, 125, 104282.	1.5	9
85	The environmental impact of the consumption of fishery and aquaculture products in France. Journal of Cleaner Production, 2021, 299, 126718.	4.6	9
86	Seasonal dynamics of the zoobenthic communities in the mesohaline zone of the Loire estuary (France). Hydrobiologia, 1988, 160, 129-139.	1.0	8
87	Long-term fishing impact on the Senegalese coastal demersal resources: diagnosing from stock assessment models. Aquatic Living Resources, 2018, 31, 8.	0.5	8
88	The Impact of Fisheries Discards on Scavengers in the Sea. , 2019, , 129-162.		8
89	Rebuilding fish stocks and changing fisheries management, a major challenge for the Common Fisheries Policy reform in Europe. Ocean and Coastal Management, 2012, 70, 1-3.	2.0	7
90	<scp><i>EcoDiet:</i></scp> A hierarchical <scp>Bayesian</scp> model to combine stomach, biotracer, and literature data into diet matrix estimation. Ecological Applications, 2022, 32, e2521.	1.8	7

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91	L'approche écosystémique des pêches, une condition pour l'exploitation durable des océans. Pour, 2009, N° 202-203, 199-206.	0.0	6
92	Les passes à anguilles en Europe. Eel ladder devices in Europe. International Review of Hydrobiology, 1990, 75, 843-844.	0.6	5
93	Marine biodiversity and ecosystem services: the large gloomy shadow of climate change. , 2019, , 79-85.		5
94	Including foraging arena and top-down controls improves the modeling of trophic flows and fishing impacts in aquatic food webs. Marine Ecology - Progress Series, 2015, 534, 17-37.	0.9	5
95	Exploitation des ressources marines: quand la crise écologique compromet l'alimentation des pays du Sud. Pour, 2009, N° 202-203, 49-56.	0.0	4
96	Approche conceptuelle de la modélisation de la dynamique du stock d'anguilles dans un bassin versant : intérêt et adaptation du modèle de rendement par recrue. Knowledge and Management of Aquatic Ecosystems: an International Journal on Aquatic Ecosystems, 1994, , 43-56.	0.4	3
97	Size still matters. A response to Svedäng (2013): Size matters: Ne quid nimis. Fisheries Research, 2015, 164, 329-330.	0.9	3
98	The need for a protean fisheries science to address the degradation of exploited aquatic ecosystems. Aquatic Living Resources, 2016, 29, E201.	0.5	3
99	Efficiency of two contrasted marine protected areas (MPA) in West Africa over a decade of fishing closure. Ocean and Coastal Management, 2021, 210, 105655.	2.0	3
100	Caractéristiques d'une pêcherie d'anguille(Anguilla anguilla) au verveux dans un petit estuaire (Blavet, France). Characteristics of an Eel(Anguilla anguilla) Fyke-net Fishery within a Small Estuary (River Blavet, France). International Review of Hydrobiology, 1990, 75, 797-806.	0.6	1
101	<scp>ESCROpath</scp>, a Bayesian mixing model to quantify diets and trophic flows in aquatic food webs. Methods in Ecology and Evolution, 2022, 13, 894-907.	2.2	1
102	Biological Characteristics of an Estuarine Growing Eel Population (Sèvre Niortaise Estuary, France). International Review of Hydrobiology, 1990, 75, 796-796.	0.6	0